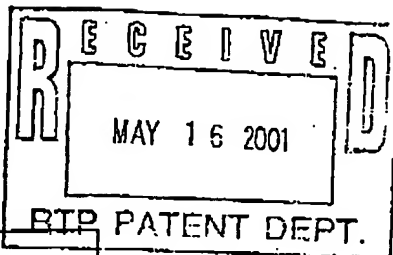


Exhibit A

Nortel Networks Confidential & Privileged Information

Invention Disclosure Submission Reply



15 may 2001
Wireless Internet Positional Sensitive Parking Space Location And Reservation

Inventors

HR Name: YQAKUM, JOHN H Known As: JOHN	 Citizenship: UNITED STATES
HR Name: COFFIN, RUSSELL C Known As: RUSSELL	 Citizenship: CANADA
HR Name: CHRISTIE IV, SAMUEL H Known As: SAMUEL	

Nortel Networks Confidential & Privileged Information**Background Information****Problem Statement**

Inherent in any congested metropolitan area is the problem of locating an available parking space as the need arises. As wireless Internet technology becomes pervasive, it can simplify this search by allowing drivers to query parking availability in the vicinity to where they happen to be at any moment, without even actually knowing exactly where they are.

The invention described in this disclosure utilizes wireless positional information, either supplied from the wireless terminal device based on global positioning information automatically determined by the device or from positional intelligence derived from the wireless network, to query parking facilities in the vicinity of the persons location. The actual parking facilities can be as simple as a single parking meter, a multiple parking space payment box, or as sophisticated as a parking garage. For facilities with controlled access like a parking lot or garage, the ability to place a short term reservation on a available parking space could be easily included by passing a token to the wireless device of the person requesting the parking space that would grant entry through an access gate upon arrival. These reservations would be good for a limited duration and could be billed as essentially extra parking time or at a fixed reservation fee. A similar approach could be considered for an individual parking meter situation, however it would depend on honesty of someone without a reservation not taking a space flagged as reserved by the parking meter.

Systems are being deployed in Europe this year that allow paying for parking spaces via wireless phone technology. The concepts in this invention for locating and reserving spaces based automatically on physical proximity would provide a value added extension to these new parking systems.

Advantages of the Invention

This invention helps drivers locate parking resources without actually requiring them to physically drive by each resource. It also eliminates the driver from having to be familiar with physically where they are and what resources are in the vicinity of where they happen to be. This is highly useful for visitors to any given area who seldom know where parking resources are located.

This invention greatly increases the flexibility of dynamically sharing parking spaces while still making them easy to locate and potentially enabling them to be reserved as needed.

The actual parking systems monitoring the parking spaces could be connected to the Internet via wireless or wired technology. In the wireless case, this invention can be considered to solve the problem of connecting meaningful information on the availability of many discrete data points related to parking availability to the Internet in places where physically connecting many devices is impractical. The simple example would be a parking meter with a solar powered wireless interconnection to easily deploy this system without any form of wiring to the meter.

Most parking systems that attempt to maximize parking space utilization are administered by human interaction and signage on space availability that requires actually driving by each location to determine if parking is available.

Classical parking space reservation systems tend to cause considerable inefficiency in parking space utilization due to the inability to dynamically adjust to whether the people that have paid for the reserved space are available to use it.

Nortel Networks Confidential & Privileged Information

The overall system would use an application in a wireless Internet client that generates queries automatically containing positional information, or tapping into network based positional information, to interact with parking systems connect to the Internet. These parking systems are location sensitive and capable of monitoring, reserving, and charging for parking spaces. Some level of network-based application would typically coordinate directing the positional sensitive queries to the proper parking systems based on location data.

The key concepts in this invention are:

The automatic utilization of wireless positional information to generate a query of parking space availability within a reasonable proximity to a person desiring to park.

The existence of a position-location coordinating mechanism to direct queries to appropriate parking systems.

The ability for a person to supply information in a profile that defines any unique requirements like the size of vehicle that are automatically included in the query.

The use of driver position and parking space location information to provide choices on spaces and instructions, potentially including map directions, to efficiently locate the space.

The ability for the parking system to reserve a parking space and transmit a secure reservation token to the person's wireless Internet device.

The ability for a person's wireless Internet device to receive a reservation token and retransmit it to gain access to the parking space.

The ability to interact with the parking location system verbally, minimizing the risks associated with driving.

The concept of a wireless Internet enabled parking meter that can be deployed as an element in a larger parking system without any physical wiring of any type.

The commercial value of this new technology is extensive and immediate. Parking is a global business and Nortel Networks as well as its competitors are all striving to bring services to the Wireless Internet that add value to the lives of people. The convenience afforded by reserving a parking space and being instructed on how to locate it is something many drivers will easily pay a few extra minutes of parking time or some other reasonable fee to enjoy.

This new concept opens the door for more services automatically tapping into the potential of the positional information related to a person using a wireless Internet device.